

Patent Abstracts of Japan

PUBLICATION NUMBER : 01310125  
PUBLICATION DATE : 14-12-89

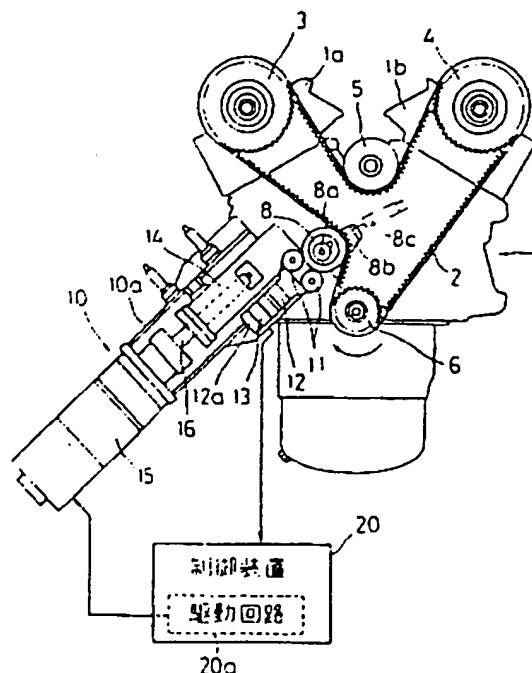
APPLICATION DATE : 20-05-88  
APPLICATION NUMBER : 63124799

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INT.CL. : F02B 67/06 F16H 7/12

TITLE : AUTOMATIC ADJUSTING DEVICE FOR  
BELT TENSION



ABSTRACT : PURPOSE: To adjust a belt tension in a short time and certainly by providing such a constitution that the push-in amount of a roller is adjusted according to a tensioner push-in load of the roller and a target push-in load while an internal combustion engine is driven in rotation.

CONSTITUTION: The driving shaft of a pulse motor 15 is connected to a base body 14 via a ball screw piece 16. The rotational motion of the motor 15 is converted into the translational motion of the base body 14 by the ball screw piece 16. Then, the base body 14 is moved together with a supporting body 12 so as to push a roller 11 onto a tensioner 8, and the tension of a timing belt 2 is adjusted according to the moving amount of the base body 14, namely, the push-in amount of the roller 11. The tensioner push-in load of the roller 11 is detected by a load cell 13 while an internal combustion engine 1 is rotated so as to input this detected value into a control device 20. In the device 20, the push-in amount of the roller 11 is calculated according to this detected value and a target push-in load, and the driving signal is outputted to the motor 15 in response to the calculated value so as to adjust the belt tension.

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